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| Г | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| | 10/743,317 | 12/23/2003 | Yasuhiro Nakamura | K06-16549M/TBS | 5570 |
| | 21254 73 | 590 10/20/2005 | | EXAMINER | |
| | MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC 8321 OLD COURTHOUSE ROAD | | | BOEHLER, ANNE MARIE M | |
| | SUITE 200 | | | ART UNIT | PAPER NUMBER |
| | VIENNA, VA | ENNA, VA 22182-3817 | | 3611 | |

DATE MAILED: 10/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAY WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of times may be available under the provisions of 37 CFR 1.136(s). In no event, however, may a reply be timely filed enter SIX (6) Month's room in the provisions of 37 CFR 1.136(s). In no event, however, may a reply be timely filed enter SIX (6) Month's room the maximum statution of the state of the provision of the provisions of 37 CFR 1.136(s). In no event, however, may a reply be timely filed enter SIX (6) Month's from the mailing date of this communication is provided to reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 26 July 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 3 and 4 is/are allowed. 6) Claim(s) 1,2,5-7,11-13 and 16-19 is/are rejected. 7) Claim(s) 8-10,14 and 15 is/are objected to. 8) Claim(s) 8-10,14 and 15 is/are objected to. Claim(s) 6,10,14 and 15 is/are objected to. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.12 | , |
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| Anne Marie M. Boehler 3611 The MA/LING DATE of this communication appears on the cover sheet with the correspondence address. Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAY WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled. - If NO period for reply is specified above, the maximum statutory period viril apply and viril expire SIX (5) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period viril apply and viril expire SIX (5) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period viril apply and viril expire SIX (5) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period viril apply and viril expire SIX (5) MONTHS from the mailing date of this communication. - Aver reply received by the Ciffice later than the months after the mailing date of this communication. - Aver reply received by the Ciffice later than the months after the mailing date of this communication. - Aver reply received by the Ciffice later than the months after the mailing date of this communication. - Aver reply received by the Ciffice later than the months after the mailing date of this communication. - Application is FINAL. - 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims - 4) Claim(s) 1-19 is/are pending in the application. - 4a) Of the above claim(s) is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under Expired Six (1) and the provisio | |
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| a) All b) Some * c) None of: | |
| 1. Certified copies of the priority documents have been received. | |
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| 2. Certified copies of the priority documents have been received in Application No | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage | |
| application from the International Bureau (PCT Rule 17.2(a)). | |
| * See the attached detailed Office action for a list of the certified copies not received. | |
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| Attachment(s) | |
| 1) Unotice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other: | |

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 5, 7,11-13, 16, 17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Etsuro (JP 2001108025).

Etsuro shows a power steering system with a drive gear 71 on the output shaft of motor 6. A bearing 17 supporting the end of drive gear 71 distal from the motor is spring biased toward the drive gear by a resilient member. Figure 5 shows an embodiment of the resilient member that includes a curved leaf spring 31 that is longer than the outer periphery of the bearing and that has ends 31c inserted to a recess in the bearing support 81.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Etsuro.

Etsuro shows the ends of the spring inserted into a recess that is proximal to the axis of the driven gear relative to the drive gear. However, it would have been an obvious reversal of parts to position the recess on the opposite side of the support.

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5. Claims 1, 5-7, 11-13, and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murakami et al. (PGPub. 2001/0040067) in view of Eda (PGPub. 2004/0245040).

Murakami shows an electric power steering system including a drive gear 7 on the output shaft of motor 6 and in mesh with a driven gear 72. A bearing 10 supports an end of the drive gear, distal the motor. The bearing is mounted in a support portion 8 by an elastic member or spring 81 that biases the rive gear in the direction of the driven gear. Murakami teaches, in paragraph 124, that the elastic member may be formed of a plate spring formed of metal. In paragraph 125, Murakami teaches the spring may also be used to reduce rattling in the axial direction and prevent backlash.

It is not clear from the Murakami disclosure if the plate spring is longer than the outer periphery of the bearing.

Eda shows a spring mounted to support an end of a drive gear 2. Eda shows several embodiments, including one that is an elastic member, similar to that of Murakami. An alternative to the elastic member, taught by Eda, is the leaf spring, shown in Figures 18A, 18B. The curved leaf spring of Eda is clearly longer than the outer periphery of the ring it surrounds.

It would have been obvious to one of ordinary skill in the art to replace the elastic member of Murakami with a leaf spring that is longer than the peripheral length of the bearing, as taught by Eda, in order to provide an inexpensive and simple to manufacture alternative spring.

6. Claims 3 and 4 are allowed. Art Unit: 3611

- 7. Claims 8-10, 14, and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Applicant's arguments filed July 26, 2005 have been fully considered but they are not persuasive.

Applicant argues that the amended claim language places the claims in condition for allowance. In particular, applicant indicates that the recitation of the "curved leaf spring being fitted along an outer peripheral surface of the bearing and an inner surface of the support portion" distinguishes over the prior art of record. The examiner disagrees. Applicant argues that the prior art does not have the degree of contact between the leaf spring and the bearing and support portion as applicant's invention. However, applicant's claim language is not limited to any particular degree of contact between the surfaces. Even applicant's disclosed invention clearly includes significant gaps between the spring and the bearing and between the spring and the support portion. The claim language merely requires the leaf spring to be "fitted along" the space between the bearing and support. This is further evidenced by dependent claims 11 and 12, which recite "leaf spring contacts said outer peripheral surface of said bearing" and "said inner surface of said support portion". Therefore, the earlier cited claim language (in claim 1) not only fails to require some high degree of contact with the spring, it does not require any contact between the spring and the facing surfaces. Therefore, the rejections based on the Etsuro, Murakami, and Eda references is being maintained, in view of the breadth of the claims.

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne Marie M. Boehler whose telephone number is 571-272-6641. The examiner can normally be reached on 7:30-5:00, Monday-Thursday, and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on 571-272-6612. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Anne Marie M Boehler Primary Examiner Art Unit 3611

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